- 23. A monoclonal antibody which (a) binds to a soluble extracellular domain sequence of an Apo-2 polypeptide which consists of amino acids 1 to 182 of SEQ ID NO:1 and (b) stimulates apoptosis in at least one type of mammalian cell in vivo or ex vivo.
- 24. A monoclonal antibody which binds to a soluble polypeptide which is (a) an extracellular domain sequence of Apo-2 polypeptide which consists of amino acids 54 to 182 of SEQ ID NO:1 or (b) a fragment of (a) which binds Apo-2 ligand and is immunogenic, wherein said antibody stimulates apoptosis in at least one type of mammalian cell in vivo or ex vivo.
- 25. The monoclonal antibody of claim 21 or 24, wherein said antibody is a chimeric antibody.
- 26. The monoclonal antibody of claim 21 or 24, wherein said antibody is a humanized antibody.
- 27. A hybridoma cell line which produces the antibody of claim 21 or 24.
- 28. A dimeric molecule comprising the antibody of claim 24 linked to a heterologous immuniglobulin.

Claim 29 has been amended to read as follows:

 E_1 /8 29. A homodimeric molecule comprising any two antibodies of claims 21, 4 22, 27 or 24.

- 30. The monoclonal antibody of claim 21 which is a human antibody.
- 31. The monoclonal antibody of claim 22 which is a human antibody.
- 32. The monoclonal antibody of claim 23 which is a human antibody.

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- 33. The monoclonal antibody of claim 24 which is a human antibody.
- 34. The monoclonal antibody of claim 22 which is a chimeric antibody.
- 35. The monoclonal antibody of claim 23 which is a chimeric antibody.
- 36. The monoclonal antibody of claim 22 which is a humanized antibody.
- 37. The monoclonal antibody of claim 23 which is a humanized antibody.
- 38. The monoclonal antibody of claim 21 wherein said at least one type of mammalian cell is a cancer cell.
- 39. The monoclonal antibody of claim 22 wherein said at least one type of mammalian cell is a cancer cell.
- 40. The monoclonal antibody of claim 23 wherein said at least one type of mammalian cell is a cancer cell.
- 41. The monoclonal antibody of claim 24 wherein said at least one type of mammalian cell is a cancer cell.